Attorney Docket No.: I01.101 Express Mail Label No.: EL963887900US

## WHAT IS CLAIMED IS:

1. A method, comprising:

identifying text to convert to speech;

selecting a speech style sheet from a set of available speech style sheets, said speech style sheet defining desired speech characteristics;

marking said text to associate said text with said selected speech style sheet; and converting said text to speech having said desired speech characteristics by applying a low level markup generated by said speech style sheet.

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- 2. A method according to claim 1, further comprising: sending said text with said low level markup to an output device.
- 3. A method according to claim 1, further comprising: identifying at least one low level markup;
- defining a voice style at least in part by associating said voice style with said at least one low level markup; and

associating a speech style sheet with said voice style.

- 4. A method according to claim 3, wherein said associating said speech style sheet with said voice style includes:
- creating said speech style sheet.
  - 5. A method according to claim 3, wherein said associating said speech style sheet with said voice style includes:

editing said speech style sheet.

6. A method according to claim 1, wherein said low level markup defines at least one of a pitch, a prosody, a voice quality, a duration, a tremor, a timbre, a speed, an intonation, a timing, a volume, and a pronunciation rule.

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7. A method according to claim 1, further comprising: providing said speech style sheet to at least one of a text-to-speech developer and a text-to-speech device.

8. A method according to claim 1, further comprising: compiling a library of speech style sheets.

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- A method according to claim 1, further comprising:
  identifying at least one low level markup;
  associating a speech style sheet with said at least one low level markup.
- 10. A method according to claim 1, wherein said speech style sheet is selected from a
  10 menu of available speech style sheets.
  - 11. A method according to claim 1, wherein said marking of said text includes annotating said text with an annotation such as underlining, bolding, italicizing, highlighting, color-coding, coding, adding a symbol, a mark, or a design.
- 12. A method according to claim 1, wherein said converting said text to speech includes:

identifying said low level markup associated with said speech style sheet; and converting said marking of said text to said low level markup.

- 13. A method according to claim 1, wherein said marking of said text further associates said text with a voice style associated with said speech style sheet.
- 20 14. A method according to claim 13, wherein said voice style represents at least one of an age, an educational level, an emotion, a feeling, a physical trait, a personality trait, and a speech category.

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15. A method according to claim 1, wherein said low level markup allows a text-to-speech developer to convey a certain amount of information using less text.

- 16. A method according to claim 1, wherein said selecting is performed by a text-to-speech developer not having expertise in voice arts.
- 5 17. A speech style sheet, comprising:

at least one voice style associated with at least one voice-type, said at least one voice style relating a high level markup of said voice-type to a low level markup of said voice-type.

- 18. The speech style sheet according to claim 17, wherein said high level markup of said voice-type is a text markup.
  - 19. The speech style sheet according to claim 17, wherein said high level markup includes at least one of an underlining, a bolding, an italicizing, a highlighting, a color-coding, an annotation, a coding, and an application of at least one of a symbol, a mark, and a design.
- 15 20. The speech style sheet according to claim 17, wherein said low level markup of said voice-type includes code causing generation of speech having particular speech properties.
  - 21. The speech style sheet according to claim 17, wherein said low level markup defines at least one of a pitch, a prosody, a voice quality, a duration, a tremor, a timbre, a speed, an intonation, a timing, a volume, and a pronunciation rule.
  - 22. The speech style sheet according to claim 17, wherein said at least one voice style represents style characteristics such as an age, an educational level, an emotion, a feeling, a physical trait, a personality trait, and a speech category.

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23. The speech style sheet according to claim 17, wherein said speech style sheet is at least one of a programming object, a programming module, a computer program, or a computer file.

- 24. An apparatus, comprising:
- a processor having access to at least one speech style sheet, said at least one speech style sheet containing a definition of a voice style associated with a voice-type, and said definition relating a high level markup of said voice-type to a low level markup of said voice-type, wherein said processor is operative to convert said high level markup to said low level markup;
- a user interface device for applying said at least one voice style to text associated with said voice-type, said user interface being in communication with said processor; and an output device connected to said processor for converting said text with said low level markup to speech.
- 15 25. The apparatus of claim 24, wherein said processor includes at least one of a text-to-speech engine and a text normalizer.
  - 26. The apparatus according to claim 24, wherein said low level markup defines at least one of a pitch, a prosody, a voice quality, a duration, a tremor, a timbre, a speed, an intonation, a timing, a volume, and a pronunciation rule.
- 27. The apparatus according to claim 24, wherein said high level markup includes at least one of an underlining, a bolding, an italicizing, a highlighting, a color-coding, an annotation, a coding, and an application of at least one of a symbol, a mark, and a design.
  - 28. The apparatus according to claim 24, wherein said voice style represents at least one of an age, an educational level, an emotion, a feeling, a physical trait, a personality trait, and a speech category.

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29. A system, comprising:

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a designer device for creating speech style sheets;

a speech style sheet at least partially created by said designer device, said speech style sheet defining a voice style;

a text-to-speech device for receiving text associated with a voice-type, said text having a high level markup associated with said voice style, said text-to-speech device having access to said speech style sheet and also having:

a memory for storing computer executable code; and

a processor for executing the program code stored in memory, wherein the program code includes;

code to determine, by accessing said speech style sheet, a low level markup associated with said high level markup; and

code to convert said high level markup of said text to said low level markup; and

an output device for producing expressive speech using said text with said low level markup, said output device in communication with said text-to-speech device.

30. The system according to claim 29, further comprising:

a developer device in communication with said text-to-speech device, said developer device for marking text and providing said text to said text-to-speech device.

20 31. The system according to claim 29, further comprising:

a user interface device in communication with said text-to-speech device, said user interface device for applying high level markup to text and providing said text to said text-to-speech device.

32. An article of manufacture, comprising:

a computer usable medium having computer readable program code means embodied therein for producing expressive text-to-speech, comprising:

computer readable program code means for identifying text to convert to speech;

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computer readable program code means for selecting a speech style sheet from a set of available speech style sheets, said speech style sheet defining desired speech characterstics;

computer readable program code means for marking said text to associate said text with said selected speech style sheet; and

computer readable program code means for converting said text to speech having said desired speech characteristics by applying a low level markup associated with said speech style sheet.

- 33. A system for producing expressive text-to-speech, comprising:
- means for identifying text to convert to speech;

means for selecting a speech style sheet from a set of available speech style sheets, said speech style sheet defining desired speech characteristics;

means for marking said text to associate said text with said selected speech style sheet; and

means for converting said text to speech having said desired speech characteristics by applying a low level markup associated with said speech style sheet.